# EXHIBIT 30

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1	Page 1 IN THE UNITED STATES DISTRICT COURT	1	VIDEOTAPED DEPOSITION OF		Page :
	FOR THE DISTRICT OF MASSACHUSETTS	2	NORBERT SMETANA		
2 3	BRAUN GmbH, )	3	April 29, 2005		
4	) Plaintiff, )	4	EXAMINATION BY:	PAGE	
	) )	5	Mr. James Shimota	5	
5	-vs- ) No. 03-CV-12428 (WGY)	l	* * * * *		
6	RAYOVAC CORPORATION, )	7	EXHIBITS		
7	) Defendant. )	8	PAGE		
8 9	Videoboood decesition blooms by intermedian of	9	Deposition Exhibit No. 37	33	
0	Videotaped deposition through interpreter of NORBERT SMETANA taken before CAROL CONNOLLY, CSR, CRR,	10	·		
1	and Notary Public, pursuant to the Federal Rules of Civil Procedure for the United States District Courts	11	Deposition Exhibit No. 38	33	
3	pertaining to the taking of depositions, at Braun GmbH,	12	Deposition Exhibit No. 39	31	
.4 .5	Frankfurter Strasse 145, D-61476 Kronberg im Taunus, Germany, at 10:14 a.m. on the 29th day of April, A.D.,		Deposition Exhibit No. 40	31	
6	2005.	13 14			
.7		15	Smetana Exhibit No. 1	77	
8		16 17	Smetana Exhibit No. 2 Smetana Exhibit No. 3	77 77	
0		18	Smetana Exhibit No. 4	77 77	
1		19	Smetana Exhibit No. 5	77	
2		20			
3		21 22			
4		23 24			
	Page 2				Page -
1	There were present at the taking of this	1	THE VIDEOGRAPHER: Good morn	ing. We are going on	5~
2 3	deposition the following counsel: ROPES & GRAY, LLP by	2	the video record at 10:14 a.m. Toda	y's date is	
_	MS. LESLEY F. WOLF	3	April 29, 2005. My name is Kevin Du	*	
4	One International Place	4	certified legal videographer in associ	•	
5	Boston, Massachusetts 02110-2624 (617) 951-7000	5	LegaLink Chicago. The court reports		
6	on behalf of the Plaintiff;	6	Connolly.		
7	KIRKLAND & ELLIS, LLP	7	Here begins the videotaped de	position of	
8	MR. JAMES SHIMOTA	8	Mr. Norbert Smetana taken in the ma	•	
0	200 East Randolph Drive	9	versus Rayovac in the United States		
9	Chicago, Illinois 60601 (312) 861-2000	10	the District of Massachusetts. This of		
0		11	held at the Braun company in Kronbo		
1	on behalf of the Defendant;	12	Will counsel please identify the	٠,	
2	ALSO PRESENT: Mr. Uwe Sievers	13	record and state whom they represe		
	Braun GmbH;	14	noticing party.	an starting with the	
3	Or, Wolfgang Stutius	15	MR. SHIMOTA: Jim Shimota from I	Cirkland and Ellis	
4	Ropes & Gray;	16	Anneanny on nepair or necentain ex	avovac Corporation	
4		16 17	appearing on behalf of defendant Ra MS_WOLE: Lesley Wolf of Ropes	•	
4 5	Ropes & Gray; Ms. Jeanette Fröhlich Interpreter;	17	MS. WOLF: Lesley Wolf of Ropes	•	
4 5 6	Ropes & Gray; Ms. Jeanette Fröhlich Interpreter; Mr. Kevin Duncan	17 18	MS. WOLF: Lesley Wolf of Ropes on behalf of the Braun company.	and Gray appearing	
4 5 6 7 8	Ropes & Gray; Ms. Jeanette Fröhlich Interpreter;	17 18 19	MS. WOLF: Lesley Wolf of Ropes on behalf of the Braun company.  THE VIDEOGRAPHER: Will the columns.	and Gray appearing ort reporter swear in	
4 5 6 7 8	Ropes & Gray; Ms. Jeanette Fröhlich Interpreter; Mr. Kevin Duncan	17 18 19 20	MS. WOLF: Lesley Wolf of Ropes on behalf of the Braun company.	and Gray appearing ort reporter swear in	
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	Page 5	1	Page 7
1	JEANETTE FRÖLICH,	1	Q And how long have you been employed by Braun?
2	called as an Interpreter herein, was sworn to interpret	2	A I've been working for this company since 19
3	questions from English to German and answers from German	3	December, 1986. That means nearly 20 years. Not
4	to English:	4	really. 19, 18.
5	NORBERT SMETANA,	5	Q And from December of 1986 to the present have
6	called as a witness herein, having been first duly	6	you been continuously employed in the R & D group?
7	sworn, was examined upon oral interrogatories and	7	A Yes, within the R & D organization.
8	testified as follows:	8	Q If you could take me briefly through where you
9	EXAMINATION	9	have worked starting from beginning of your employment
10	By Mr. Shimota:	10	until today?
11	THE VIDEOGRAPHER: You may begin please.	11	A I think that there were three main positions
12	MR. SHIMOTA: Q Good morning, Mr. Smetana.	12	starting with, let's say, more or less an expert in
13	A Good morning.	13	fluid dynamics, knowing more or less the complex rules
14	Q Would you please state your name for the	14	for small fans and blowers for several appliances. The
15	record?	15	next step was to go forward to the to our own
16	A My name is Norbert Smetana.	16	development of hair dryer, hair care products. From the
17	Q And would you also give your address?	17	research department this step to development department,
18	A I'm living here in Kronberg. The street is	18	and yes, maybe main step that the task of our group is
19	Beckinrig 7. You need the 61476, Kronberg.	19	now to support the so-called OEM activities in
20	Q That's fine. Before we begin, I'd like to go	20	combination with other companies who support us.
21	through a few bits of deposition basics. You understand	21	Q How did you become an expert in fluid dynamics?
22	that you are here today to answer questions that I ask	22	A From my study. I studied mechanical
23	you, correct? And in in addition, if you would, when	23	engineering. It's minor machine general, mechanical
24	I ask you a question, you need to provide an audible	24	engineering in Darm Stadt and here you have the choice
1	Page 6 answer. Can you do that?	1	to focus more or less to your interests, and this was
2	A Yes.	2	the way I came to turbo machines and fluid dynamics and
4	Q And if during the course of the day I ask you a question which you do not understand, would you please	3	stuff like this.
5	question which you do not understand, would you please		O Mhat - I don't know - if you told mo this I
•	tall me that? Again if you	4	Q What I don't know if you told me this, I
6	tell me that? Again if you	5	apologize. What university did you study mechanical
6	A Sure. I tell you.	5 6	apologize. What university did you study mechanical engineering at?
7	A Sure. I tell you. Q And, additionally, if there's ever a question	5 6 7	apologize. What university did you study mechanical engineering at?  A It was technical high school I don't know
7 8	A Sure. I tell you. Q And, additionally, if there's ever a question that I ask you which you would like to have translated	5 6 7 8	apologize. What university did you study mechanical engineering at?  A It was technical high school I don't know whether university is now technical university now in
7 8 9	A Sure. I tell you. Q And, additionally, if there's ever a question that I ask you which you would like to have translated into English, would you please ask for that as well?	5 6 7 8 9	apologize. What university did you study mechanical engineering at?  A It was technical high school I don't know whether university is now technical university now in Darm Stadt.
7 8 9 10	A Sure. I tell you. Q And, additionally, if there's ever a question that I ask you which you would like to have translated into English, would you please ask for that as well? A Yes, I will do so.	5 6 7 8 9	apologize. What university did you study mechanical engineering at?  A It was technical high school I don't know whether university is now technical university now in Darm Stadt.  Q Could you please tell Darm Stadt?
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A Sure. I tell you. Q And, additionally, if there's ever a question that I ask you which you would like to have translated into English, would you please ask for that as well? A Yes, I will do so. Q And if during the course of the day you've given an answer, which you later determine is incomplete or inaccurate, would you also tell me that? A Yes, of course. Q And is there any reason that you can think of sitting here today that you are unable to answer my questions truthfully and accurately? A No, I feel fine today. Q Thank you. Mr. Smetana, where are you employed? A I'm employed in the R & D development and the subdivision is now called OEM products for hair care. Q And are you employed at Braun GmbH?	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	apologize. What university did you study mechanical engineering at?  A It was technical high school I don't know whether university is now technical university now in Darm Stadt.  Q Could you please tell Darm Stadt?  A D-A-R-M then S-T-A-D-T.  Q And what course work did you take in order to gain knowledge as to fluid dynamics?  A We had courses you can choose and others which are  THE INTERPRETER: Compulsory?  THE WITNESS: Compulsory, yes, and there was a mixture. Compulsory was the fluid dynamic basic course and then the lessons I choose for myself was more like turbo machinery, special points of fluid dynamics like  THE INTERPRETER: Dimension analysis and disturbance calculation.

	Page 9		Page 11
1	MR. SHIMOTA: Q Did you take courses in thermal	1	THE WITNESS: Bound collection of papers.
2	dynamics?	2	MR. SHIMOTA: Q That's what I meant, but I guess
3	A Yes, thermal dynamics. That was also	3	or how would you in general during the course of your
4	compulsory, yes.	4	career, how would you keep written records of the work
5	Q Do you are you familiar with the term	5	that you had performed?
6	chemical engineering or with the term?	6	A Yeah. At the beginning the computers were not
7	A Chemical	7	so distributed then we had more paperwork in these
8	Q Chemical engineering or maybe the term here is	8	simple ring folders.
9	process engineer.	9	MS. WOLF: Binders.
10	A I'm not familiar with chemical things besides	10	THE WITNESS: Sorry. In these ring binders. And
11	what I learned in basic school.	11	with all the helps you can have there, and nowadays, of
12	THE INTERPRETER: In 13th grade.	12	course, basically on the computer systems and in
13	DR. STUTIUS: It's all high school.	13	addition on these ring binders.
14	THE WITNESS: It's my also combination between	14	MR. SHIMOTA: Q When you mention these ring
15	chemical processes and engineering things. I had no	15	binders, what types of documents would be contained in
16	special lessons on this, but it was not — from time to	16	the ring binders?
17	time you get in connection with stuff, especially	17	A This is more maybe a process depending on
18	advanced technique like	18	the different persons. Normally I immediately I tend
19	THE INTERPRETER: Heat exchange.	19	to keep more or less everything, and then with the
20	THE WITNESS: Heat exchanges and things like this.	20	months and years you sort it out and only keep what is
21	MR. SHIMOTA: Q It's not particularly important. I	21	really important, what is essential points and also
22	studied chemical engineering in the United States.	22	sometimes later when you are very sure that a project is
23	Sounds like you took the same courses I took, but that's		definitely finished and some lawyer time has also passed
24	iust	24	then you can give away all the development documents.
27	just ·	_ '	then you can give away an the development documents.
<u> </u>			
	Page 10		Page 12
1	A Maybe we're different.	1	Q You mentioned I believe notices. Can you
2	Q They're a lot of the same courses.	2	explain to me what you meant by notices?
3	Did you pursue any further studies after	3	A Notices starts when you sit together with a
4	receiving your degree in Darm Stadt?	4	colleague by writing down something or then
5	A No, no further official studies.	5	THE INTERPRETER: It's notes.
6	Q And what year did you receive your degree at	6	THE WITNESS: Notices is different.
7	Darm Stadt?	7	MR. SHIMOTA: Q I understand. Are you referring to
8	A When?	8	handwritten notes?
9	Q Which year?	9	A Also, yes.
10	A In which year? That was in 1986.	10	Q And would it also be typed or notes that would
11	Q So am I correct that you began working at Braun		be typed out?
12	after receiving your degree?	12	A Yeah.
13	A That's right, yes.	13	Q These would be generated either during or after
14	Q Were you employed by any other companies prior	14	meetings with colleagues?
15	to coming to Braun?	15	A That's possible, yes.
16	A No.	16	Q What if you would have a meeting with a
17	Q During the course of your work in the R & D	17	colleague, in general, what would be your person
18	group, did you regularly maintain a laboratory notebook?	18	practice with respect to note taking?
19	A We not a notebook in the sense of really a	19	A That depends. That depends on the person. If
I		į.	· · · · · · · · · · · · · · · · · · ·
20	book, but, of course, we had our notices not only of	20	you really tried to get rather deep in an idea you
21	piece of paper but in documents, in ream books and so	21	always will have sketches, and then the sketches look
22	on, but I'm not sure whether you mean by lab book really	22	strange as you can imagine technical sketches can look,
23	binded	23	and yeah. Sometimes when it's more important you

24 can write a summary, and this is basically done with

24

DR. STUTIUS: Bound.

		Τ_	
١.	Page 13	1 .	Page 1
1	computers.	1	you first gained access to the Lotus Notes system?
2	Q When you would write a summary, would you	2	A I think it was about before the year 2000, but
3	attempt to do so soon after the meeting you had with a	3	I'm not sure.
4	colleague?	4	Q Aside from Lotus Notes, did Braun ever have any
5	A Not always because there's not always the time	5	other type of e-mail system except for the what we
6	to do so, and it's not necessarily every time after a	6	talked about in the R & D group?
7	meeting.	7	A Did we start with Lotus Notes? I'm not sure.
8	Q Okay. Well, why would you in what	8	Q Are you aware that there is currently a patent
9	circumstances would you write a summary on a computer of	9	litigation between Braun and Rayovac or Remington
10	the of a meeting?	10	regarding shaver cleaning systems?
11	A In general now if this is a meeting with	11	A I know this headline, yes.
12	external partners we usually write a summary. In many	12	Q In general are you aware that at least some of
13	cases also two summaries from their side, from our side.	13	the subject matter of that litigation is shaver deaning
14	Of course, if you are asked to do so and in other	14	system developed at Braun?
15	cases maybe it's not summary with words, it's a word	15	A Could you repeat it again, please?
16	document, but also to document the results with a	16	Q Sure. Are you in general aware that at least
17	calculation program, for instance. If you discuss	17	part of the subject matter of the litigation is a shaver
18	geometry of a special part then you can also fix the	18	cleaning system which was developed at Braun?
19	results in a calculation form and so on.	19	A Yes. Yes, I'm aware.
20	Q You do you have e-mail now at Braun?	20	Q And did you have any role in the development of
21	A Yes.	21	the shaver cleaning system at Braun?
22	Q And do you recall when you first gained access	22	MS. WOLF: Objection as to form.
23	to e-mail at Braun?	23	You can answer if you understand the question.
24	A No, I'm not sure now.	24	THE WITNESS: I think I could help my colleagues to

Page 14

Would it have been more than 5 years ago?

I think so. Yes, we had a different system to what we use now, but that was not so common for all employees. I cannot figure the date exactly.

Q Were there two different types of e-mail

systems at Braun?

7 A No. What I can remember prior to this official 8 notes system maybe only within R & D group we have machines which have additional features to find out 10 telephone numbers and to leave short notes to someone else, but that's not a mail system you can compare to 11 what we know today. 12

Q The system that was within the R & D group, did 13 14 you have access to that?

15 A I don't know because -- actually I did not use this. It was not perfected. Normally I took the phone 16 to give information or to ask someone. 17

Q So am I correct that you personally would not have communicated with the system in the R & D group?

Q And am I correct that you currently have a

22 Lotus Notes e-mail system?

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And just also to be sure, you don't know when Q

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Page 16 develop or to optimize especially the blowing system which the first shaver cleaning center has to dry the shaver or the shaving foil after the cleaning process. MR. SHIMOTA: Q Do you recall -- let me ask you,

what did you do to optimize the blowing system?

A I think, first of all, we had to find out what is really necessary to fulfill this wish of drying a shaver after the cleaning process, which parameters you need to do this in a rather short time without being too noisy, without the need to have such a big device, appliance. That's basically find out the parameters. 11 Then in second step do the combination between these 12 parameters and the right fan system, and after finding 13 the right fan system to optimize the fan itself and 15 geometry around it from the point where the air goes --16 can come in until it leaves the cleaning center again.

What parameters did you consider as necessary? For the first step it's important to know which

19 air flow of the volume in, maybe, liters per second, or 20 in our systems we prefer to talk about liters per 21 second. That's one point. And the second is pressure terms, which pressure is necessary before an obstacle to

23 make this needed airflow pass.

Q Were there any other parameters that you can

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## Norbert Smetana

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Page 17 think of? 1 2 A Other parameters have to do with these main 3 points, yes, in this first step. 4 Q Okay. So it would be subsets of the two 5 parameters, does that make sense to you? 6 7 0 And how would you combine -- how would you 8 combine parameters to select the appropriate fan system? q A Yes. Here we have no rules in the physics of 10 blowers and fans in general that are the so-called --11 THE INTERPRETER: Characteristics of --12 dimensionless characteristics. 13 THE WITNESS: Dimensionless characteristics, yes. 14 And, finally, this rules or this -- whether a system 15 fits or not you can check with this dimensional characteristics if they are in a certain region, in a 16

MR. SHIMOTA: Q So you would use these calculations to essentially task various types of fan systems?

A Yes, theoretically. In this second step 22 23 because besides pressure and airflow two other main parameters play a role. That's main diameter of a fan 24

certain rank, then you can derive the feeling or

statement that's okay or that's not okay for this task

fan, but our special -- trommelrotor definitely looked 2 more than this. They have this shape. Very small but 3 high blades for the airflow which can pass like this and 4 that's -- that's a first main characteristic. And also 5 the shape of the blade itself incoming and outgoing 6 angle of this blade is different and in this or that 7 type.

MR. SHIMOTA: Q How would the angles of the blades be different?

A If you have look from the top and imagine this is outer diameter and that's inner diameter, and here, 11 12 this is how it turns, then here more often you have 13 geometries like this, maybe also up to -- sometimes also 14 for other purposes like this, but in the -- in this case here it's often that it looks like this, the plate. 15 And, of course, next one and the next one and so on.

And this causes a different behavior of the -what's the influence on the airflow. In this simple -in simple words with a system like this you can better create pressure, and with systems like this you are able to create velocity, but here also velocity and here also pressure, but that's the main task, and here this is the main task.

Q I understand. You said that ultimately you

Page 18

and the RPM, the turning speed of the fan. And air is 2 air. We know we must not deal with water, but with air. 3

Q And after you had selected the fan system, you mentioned that you would optimize the geometry?

Α Yes.

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you need.

Q How would you do that?

7 Α Maybe you can imagine that different basic 8 types of this blowers and fan systems we have axial fans, don't want to get too close in details or radial 9 fans where the air flow is different to an axial fan, 10 and also so-called mixed flow sub types. You can use 11 12 mixture of combination, and as well as what we finally should use here is so called -- in German it's 13 14 trommelrotor.

DR. STUTIUS: Drum rotor.

THE WITNESS: Dumb rotor. It's a special sub type of a radial fan. Normal -- if it's helpful, normally radial fans are -- try to do the sketch a little bit bigger.

You have the axis here, and these are the blades. Here's the rotation. Air goes in here and passes in this direction. And if this is rather small, the heat, and the diameter is -- the relation of the 24 diameter to the heat is big, great, then it's normal

Page 20 would use this type of fan. Did you mean in the shaver cleaning system? 2 3

A Yes. That was a result of step 2 from the combination of all parameters we can see, or I can see that this is the system which is -- which we should use in a shaver cleaner.

Q And why was that?

A For me often it's easier to answer with a sketch if it's possible, yes.

That's fine.

If you imagine a hair dryer, for instance, then -- I only do a sketch of the flow system. Then you have an inlet grid and then somewhere the blower, then you have the heater elements. Again an outlet grid and maybe also a nozzle or something. And here this is a system. Here you add the energy, there's a motor. And here and here, here and here you have energy losses. Finally, there is helpful rest to dry the hair.

And this is -- this is a system which needs pressure here, and the pressure finally causes velocity and the whole thing can work. In other situations like in a -- yes, let's use a shaver cleaner. Then you have the head of the shaver maybe here. And what you need basically is here high velocity. Everything else is not

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1	Page 21 so important. Therefore, the system has no fluid	١,	Page 23
2	resistance itself, and that's the reason why at this	1 2	Q MacIntosh? A Max. that was from Dec Network. I think.
3	place you need a blowing system which gives you velocity	3	A Max, that was from Dec Network, I think.  They're out of business.
4	primarily in its main task, in combination, of course,	4	MS. WOLF: Are we going to mark these?
5	with a high an airflow which is high enough because	5	MR. SHIMOTA: We will.
6	you can imagine velocity can be high if it only passes a	6	MS. WOLF: I just want the record to reflect they
7	very small hole that it's useless, this high velocity.	7	are not based on any examination at Braun. They're just
8	You need to have a high velocity at least in this	8	from memory of sketches, schematics.
9	complete area as the same with the head of the shaver.	9	MR. SHIMOTA: Q Over what period of time did you
10	Q And so would you combine the velocity with the	10	work on the shaver deaning system?
11	actual geometry of where not the geometry of the fan,	11	A That's not so easy to answer because it took
12	but the geometry of the shoulder for the shaver? Does	12	quite a long time from the first idea to the time where
13	that make sense to you?	13	they get in con got in contact with me to ask the
14	MS. WOLF: Objection do form.	14	first questions until you really Braun really
15	THE WITNESS: Yeah, by you understood, of course,	15	finalized the product. Maybe 5 years.
16	it's important to have between on the short way between	16	Q When you say the first idea, what do you mean
17	the blowing system and the head of the shaver also the	17	by the first idea?
18	right geometry, not too wide, not too narrow, to have an	18	A The first idea belongs to the first step I
19	optimal result.	19	described before which physical data is necessary to
20	MR. SHIMOTA: Q Do you have any recollection of	20	realize the idea, yeah, which pressure do you need,
21	what the optimal geometry is or was?	21	which airflow do you need.
22	A No, that's not a sharp optimum. I cannot	22	Q So you're referring to your mental processes,
23	answer by so and so many square millimeters, but the	23	is that what you mean?
24	fact is if this is the area where the whole airflow has	24	A Pardon? Could you repeat that?
	Page 22		Page 24
1	to pass, if it's too if it's too large then the	1	Q I want to let me try to phrase it this way.
2	velocity is too low and if the effect is not optimal.	2	Whose idea were you referring to when you say the first
3	If it's too narrow or too small then not sufficient air	3	idea?
4	can pass. Of course, then the speed is higher, but the	4	MS. WOLF: Object as to form.
5	airflow itself is reduced and this is not again optimal	5	
6			THE WITNESS: Belonging to the drying system or to
	for the whole system. So here we try to find a good	6	THE WITNESS: Belonging to the drying system or to the whole shaver cleaning system?
7	compromise.	_	
7 8	compromise.  Q And how would you reach that compromise?	6	the whole shaver cleaning system?
ŀ	compromise.  Q And how would you reach that compromise?  A Well, of course, you can again calculate if you	6 7	the whole shaver cleaning system?  MR. SHIMOTA: Q I guess I'll ask for both.  A I think the idea to produce a cleaning center was all could already exist when I started and the
8	compromise.  Q And how would you reach that compromise?  A Well, of course, you can again calculate if you know the airflow, if you know the cross sectional area,	6 7 8 9 10	the whole shaver cleaning system?  MR. SHIMOTA: Q I guess I'll ask for both.  A I think the idea to produce a cleaning center was all could already exist when I started and the first steps here I did know this, and maybe in 1993
8 9 10 11	compromise.  Q And how would you reach that compromise?  A Well, of course, you can again calculate if you know the airflow, if you know the cross sectional area, then you can calculate velocities. From the velocities	6 7 8 9	the whole shaver cleaning system?  MR. SHIMOTA: Q I guess I'll ask for both.  A I think the idea to produce a cleaning center was all could already exist when I started and the
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8 9 10 11	compromise.  Q And how would you reach that compromise?  A Well, of course, you can again calculate if you know the airflow, if you know the cross sectional area, then you can calculate velocities. From the velocities you can calculate pressures, and you can also combine these pressures to what the system calculation gives you	6 7 8 9 10 11 12 13	the whole shaver cleaning system?  MR. SHIMOTA: Q I guess I'll ask for both.  A I think the idea to produce a cleaning center was all could already exist when I started and the first steps here I did know this, and maybe in 1993 or '94 I was involved in first ideas because colleagues know that my main work here deals with fans and blowers and systems like this and, therefore, they start
8 9 10 11 12 13 14	compromise.  Q And how would you reach that compromise?  A Well, of course, you can again calculate if you know the airflow, if you know the cross sectional area, then you can calculate velocities. From the velocities you can calculate pressures, and you can also combine these pressures to what the system calculation gives you and whether it fits, it's too much, too less, just to	6 7 8 9 10 11 12 13 14	the whole shaver cleaning system?  MR. SHIMOTA: Q I guess I'll ask for both.  A I think the idea to produce a cleaning center was all could already exist when I started and the first steps here I did know this, and maybe in 1993 or '94 I was involved in first ideas because colleagues know that my main work here deals with fans and blowers and systems like this and, therefore, they start to ask me.
8 9 10 11 12 13 14 15	compromise.  Q And how would you reach that compromise?  A Well, of course, you can again calculate if you know the airflow, if you know the cross sectional area, then you can calculate velocities. From the velocities you can calculate pressures, and you can also combine these pressures to what the system calculation gives you and whether it fits, it's too much, too less, just to find the right balance.	6 7 8 9 10 11 12 13 14 15	the whole shaver cleaning system?  MR. SHIMOTA: Q I guess I'll ask for both.  A I think the idea to produce a cleaning center was all could already exist when I started and the first steps here I did know this, and maybe in 1993 or '94 I was involved in first ideas because colleagues know that my main work here deals with fans and blowers and systems like this and, therefore, they start to ask me.  Q Who started to ask you?
8 9 10 11 12 13 14 15 16	compromise.  Q And how would you reach that compromise?  A Well, of course, you can again calculate if you know the airflow, if you know the cross sectional area, then you can calculate velocities. From the velocities you can calculate pressures, and you can also combine these pressures to what the system calculation gives you and whether it fits, it's too much, too less, just to find the right balance.  Q Is this the type of thing you would use, for	6 7 8 9 10 11 12 13 14 15 16	the whole shaver cleaning system?  MR. SHIMOTA: Q I guess I'll ask for both.  A I think the idea to produce a cleaning center was all could already exist when I started and the first steps here I did know this, and maybe in 1993 or '94 I was involved in first ideas because colleagues know that my main work here deals with fans and blowers and systems like this and, therefore, they start to ask me.  Q Who started to ask you?  A Of course, Mr. Braun who has this job and in
8 9 10 11 12 13 14 15 16 17	compromise.  Q And how would you reach that compromise?  A Well, of course, you can again calculate if you know the airflow, if you know the cross sectional area, then you can calculate velocities. From the velocities you can calculate pressures, and you can also combine these pressures to what the system calculation gives you and whether it fits, it's too much, too less, just to find the right balance.  Q Is this the type of thing you would use, for example, like an Excel spreadsheet, put in formulas and	6 7 8 9 10 11 12 13 14 15 16	the whole shaver cleaning system?  MR. SHIMOTA: Q I guess I'll ask for both.  A I think the idea to produce a cleaning center was all could already exist when I started and the first steps here I did know this, and maybe in 1993 or '94 I was involved in first ideas because colleagues know that my main work here deals with fans and blowers and systems like this and, therefore, they start to ask me.  Q Who started to ask you?  A Of course, Mr. Braun who has this job and in this first time I think it was the only person who gets
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8 9 10 11 12 13 14 15 16 17 18 19 20	compromise.  Q And how would you reach that compromise?  A Well, of course, you can again calculate if you know the airflow, if you know the cross sectional area, then you can calculate velocities. From the velocities you can calculate pressures, and you can also combine these pressures to what the system calculation gives you and whether it fits, it's too much, too less, just to find the right balance.  Q Is this the type of thing you would use, for example, like an Excel spreadsheet, put in formulas and start varying the parameters to see what is optimal?  A Yes, it can be done with Excel spreadsheets.  Maybe at this time I used programs based on Fortran	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the whole shaver cleaning system?  MR. SHIMOTA: Q I guess I'll ask for both.  A I think the idea to produce a cleaning center was all could already exist when I started and the first steps here I did know this, and maybe in 1993 or '94 I was involved in first ideas because colleagues know that my main work here deals with fans and blowers and systems like this and, therefore, they start to ask me.  Q Who started to ask you?  A Of course, Mr. Braun who has this job and in this first time I think it was the only person who gets in contact with me.  Q Did anyone else subsequently get in contact with you?
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	compromise.  Q And how would you reach that compromise?  A Well, of course, you can again calculate if you know the airflow, if you know the cross sectional area, then you can calculate velocities. From the velocities you can calculate pressures, and you can also combine these pressures to what the system calculation gives you and whether it fits, it's too much, too less, just to find the right balance.  Q Is this the type of thing you would use, for example, like an Excel spreadsheet, put in formulas and start varying the parameters to see what is optimal?  A Yes, it can be done with Excel spreadsheets.  Maybe at this time I used programs based on Fortran programming language. We had these next machines at Braun at that time.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the whole shaver cleaning system?  MR. SHIMOTA: Q I guess I'll ask for both.  A I think the idea to produce a cleaning center was all could already exist when I started and the first steps here I did know this, and maybe in 1993 or '94 I was involved in first ideas because colleagues know that my main work here deals with fans and blowers and systems like this and, therefore, they start to ask me.  Q Who started to ask you?  A Of course, Mr. Braun who has this job and in this first time I think it was the only person who gets in contact with me.  Q Did anyone else subsequently get in contact with you?  A Later after retirement of Mr. Braun.  Q And who would have gotten in contact with you
8 9 10 11 12 13 14 15 16 17 18 19 20 21	compromise.  Q And how would you reach that compromise?  A Well, of course, you can again calculate if you know the airflow, if you know the cross sectional area, then you can calculate velocities. From the velocities you can calculate pressures, and you can also combine these pressures to what the system calculation gives you and whether it fits, it's too much, too less, just to find the right balance.  Q Is this the type of thing you would use, for example, like an Excel spreadsheet, put in formulas and start varying the parameters to see what is optimal?  A Yes, it can be done with Excel spreadsheets.  Maybe at this time I used programs based on Fortran programming language. We had these next machines at	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the whole shaver cleaning system?  MR. SHIMOTA: Q I guess I'll ask for both.  A I think the idea to produce a cleaning center was all could already exist when I started and the first steps here I did know this, and maybe in 1993 or '94 I was involved in first ideas because colleagues know that my main work here deals with fans and blowers and systems like this and, therefore, they start to ask me.  Q Who started to ask you?  A Of course, Mr. Braun who has this job and in this first time I think it was the only person who gets in contact with me.  Q Did anyone else subsequently get in contact with you?  A Later after retirement of Mr. Braun.

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1	work that time in the small group of Herr Höser.	1	A A main storage somewhere down in the basement
2	Q And do you recall the names of those	2	of the old building. Not on a personal computer. Not
3	colleagues?	3	everything on the personal computer.
4	A One was Mr. Jung. Hopefully Jahn is the	4	Q Do you know whether that computer still exists?
5	surname. I'm not sure.	5	A I definitely know that it does not does not
6	Q Alf Jahn?	6	exist anymore.
7	A Alf Jahn, yes. Not sure whether the second one	7	Q Okay. And do you know what happened to it?
8	Norbert Kreutz is from the beginning of that time	8	A It was not up to date any longer and was
9	involved and Jurgen Höser himself.	9	replaced by other machines.
10	Q Do you recall any other names of people who	10	Q Do you know when it was replaced?
11	contacted you for assistance?	11	A Not exactly. The whole system as always was
12	A I cannot remember other names.	12	several different machines and they started to give away
13	Q Now you mentioned the binders that you kept	13	the first one and so on until the last of the system has
14	with your notes. Did you keep a binder related to your	14	to leave.
15	work on the shaver cleaning system?	15	Q Okay. Did you maintain any of the electronic
16	A No. Not a complete binder because that was not	16	information on a personal computer? Let me reask it to
17	a major project for me.	17	make sure.
18	Q Did you keep a file related to your work or did	18	Did you maintain any of the information related
19	you keep any written records related to your work on the	19	to your work on the shaver cleaning system on your
20	shaver cleaning system?	20	personal computer?
21	A I have a binder with the headline in the sense	21	A We had a system or a method to collect
22	of miscellaneous and among these blowers and blower work	22	important documents or calculations, also programs to
23	for special blowers there is a small section about	23	calculate. As you can imagine you need a lot of time to
24	cleaning center.	24	build up calculation programs, and, therefore, it's hard
			, -
	Page 26		Page 28
1	Q During the course of your career how many pages	1	just to give away but these were Fortran, written in
2	of work do you believe you generated with respect to the	2	Fortran programming language. And now I have to say I
3	shaver cleaning system?	3	must look it up whether there is still something left
4	A It was a mixture between pages and documents on	4	from this on a special on a special device
5	the computer. So it if when I know the	5	DR. STUTIUS: Disk drive.
6	information is on the computer then I do not tend to	6	THE WITNESS: Disk drive.
7	produce too much paper. If I have to if I have to look	7	MR. SHIMOTA: Q Okay. Well, in connection with
8	it up now not more than 10 paper maximum, 10 sheets.	8	this litigation, did attorneys ask you to collect
9	Q 10 sheets of paper?	9	documents related to your work on the shaver cleaning

10 A 10 sheets of paper, yeah. 11 Q Do you -- well, how much information would you 12 have retained on the computer? 13 A This was special information belonging to the calculation with dimensionless characteristics and, of 14 15 course, calculations belonging to special geometry here, 16 angles, RPMs, diameters, height and in combination with 17 the possibility to create the needed airflow. Q Did you keep this information on a disk or how 18 19

Q Did you keep this information on a disk or how did you store it?

A That was stored on the computer, but in combination with old -- older programs and documentation systems.

systems.

Q Stored where on the computer, just like a main --

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9 documents related to your work on the shaver cleaning 10 system?

10 Systems

A To keep some of these documents and programs

12 was basically my own intention, yes.

13 Q Sure. I'm not sure if you understood the 14 question. At some point did attorneys come to you and 15 ask you for documents in your possession related to your

16 work on the shaver cleaning system?

17 A When we worked together we exchanged the
 18 knowledge and the documents, and, therefore, they should

19 have what they know immediately, what we worked out

20 immediately, and, therefore, that's --

21 DR. STUTIUS: I don't know if he understood your

22 question. If the attorneys approached him to transfer

23 that information to the attorneys, right?

24 MR. SHIMOTA: Yes.

7 (Pages 25 to 28)

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1	THE WITNESS: No, not in combination with attorneys.	1	MS. WOLF: Objection.
2	MR. SHIMOTA: Q So I want to make sure that you	2	MR. SHIMOTA: Q I misstated your testimony.
3	understood me. You are aware that there is a case, a	3	Apologize.
4	patent litigation between Rayovac and Braun currently,	4	During this past week you were able to locate a
5	correct?	5	few results within your personal computer, is that
6	A Yes.	6	correct?
7	Q And in connection with that let me just set	7	A That's correct, few results.
8	it aside.	8	Q When you say a few, can you tell me how many?
9	In the past year have attorneys come to you,	9	A I handed show you two documents, that's
10	attorneys from either outside law firm or within Braun	10	right? Yes, two.
11	itself, come to you and asked you to provide them with	11	O I'll mark them as exhibits. We'll mark them as
12	your documents related to documents you possess	12	an exhibit in a second I can do it. They're just out
13	related to your work on the shaver cleaning system?	13	of order. I'll mark as defendant's Exhibit 39, a
14	A No, no.	14	document that does not bear a Bates number yet, but
15	Q So would you be able to check to see if you	15	appears to be a memo from yourself to Jurgen Höser on
16	still maintained electronic information would you be	16	March 26th, 1995.
17	able to check to see whether you maintained would you	17	(Exhibit 39 marked as requested)
	be able to check to see if you still had electronic	18	A That's one of these documents, yes.
18	•		
19	information related to your work on the shaver cleaning	19	
20	system on your personal computer?	20	a document which appears to be authored by yourself on
21	A The Windows Explorer has such a function.	21	September 12th, 1997.
22	That's the way it could work, such function with date,	22	(Exhibit 40 marked as requested)
23	from-to.	23	A Yes.
24	Q And have you recently performed that search	24	Q Are these documents that you were able to
	Page 30		Page 32
1	function?	1	locate on your computer?
2	A I tried, but only with few results.	2	A That's are the two documents I found this week.
3	Q Why did you try?	3	Q Were you able to locate any others on your
4	MS. WOLF: That's fine. You can answer that.	4	personal computer?
5	THE WITNESS: In combination with our meeting we had	5	A Not so far.
6	before and you ask me whether I have possibility to find	6	Q You mentioned that you you once had a note
7	documents, therefore, I started to search machine.	7	miscellaneous notebook had some documents in it
8	MR. SHIMOTA: Q That's where I think there's some	8	related to your work on the shaver cleaning system.
9	confusion.	9	Does the miscellaneous notebook still have those
10	So during this past week, past week attorneys	10	documents related to the work on the shaver cleaning
11	asked you to look for documents, is that right?	11	system?
12	A That's right, this week.	12	A Here I'm not sure because so far I did not find
13	Q Had you been asked to look for documents by	13	this ring binder.
14	attorneys prior to that time?	14	DR. STUTIUS: Ring binder.
15	A No, definitely not.	15	THE WITNESS: Right binder.
16	Q So I take it then you would not have provided	16	MR. SHIMOTA: Q So okay. Let me see if I
17	any documents to attorneys related to your work on the	17	understand. At present you don't know where the
	shaver cleaning system prior to that time?	18	miscellaneous binder is?
18 10			A This should be somewhere among lots of
19 20	A That's right.	19	
20 21	Q I understand. And in connection with the	20	documents I have in my box, but not in the first row
21	request that you received this week, you were unable to	21	and, unfortunately, I really had no time to spend more
22	locate documents or the electronic information	22	than this computer search time to find anything.

Q To the extent those documents still do exist,

24 we would request production of them. Set those aside.

23

23 pertaining to your work on the shaver cleaning system,

24 is that correct?

Page 36

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Page 33
   We'll ask you about them. I will ask you about them.
         I'm guess going to mark now first as
2
3
   defendant's Exhibit No. 37, English translation of a
4
   document bearing the Bates number B4610 to B4616.
         (Exhibit 37 marked as requested)
```

6 Q I have the German version too so you don't have 7 to worry. A document -- I'd like to mark as defendant's deposition Exhibit No. 38 the German version of B4615 to 9 B4616 which appears to be a memo written by yourself on 10 -- in August -- August 3rd of 1993.

(Exhibit 38 marked as requested)

- 12 Take whatever time you need to review the 13 document, but if afterwards you can tell me whether you recognize it, which would be defendant's Exhibit No. 38. 14
- A It's not so difficult to recognize because I 15 see my handwriting here, and it's also my style of 16 17 writing at that time.
- 18 Q When you say your style of writing, what do you 19 mean by your style of writing?
- A Maybe you know people who studied mechanical 20 engineering tend to always to produce this rectangular 21 22 lines.
- Q Let me ask this question. Is this a document 23 -- and -- did you produce this document to lawyers in 24

1 Dr. Jung?

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- 2 Α
  - Q And would you have distributed it to anyone else to the best of your recollection?
    - A No, I don't think so.
  - O During or at or near this time period did you ever have any discussions with attorneys at Braun regarding the shaver cleaning system?
  - A No, only discussions with technical colleagues from the technical department.
  - Q Did you have discussions with Dr. Pahl?
    - MS. WOLF: Objection. Regarding the shaver cleaner? MR. SHIMOTA: Q I mean did you know Dr. Pahl?
- A Yeah, because normally you know all the 14 directors here in house and, therefore, also know 15 16 Dr. Pahl.
- Q Let me ask you this. Why did you distribute 17 contribute this memo to Dr. Pahl? 18
- 19 A He was not manager, supervisor of Mr. Braun and 20 Dr. Jung was my boss at that time.
- 21 Q Did the -- at that time did you know whether Dr. Pahl had any involvement with the shaver cleaning 22 23 system?
  - A Of course, involvement, sure. He was the

Page 34

- connection with this litigation? Let me ask -- let me 1 2
- 3 Did you find this document in your personal 4 files and give it to lawyers?
- 5 No. Α

5

11

- At any time. 6 Q
- 7 Α

9

- 8 Q Doctor -- you see the name Dr. Jung?
  - Α Uh-huh.
- 10 Q Do you know whether Dr. Jung has provided any documents to lawyers in connection with this litigation? 11
- 12 MS. WOLF: Objection.
- 13 THE WITNESS: I don't know.
- 14 MR. SHIMOTA: Q Do you know -- let me ask you this.
- 15 Do you have any reason to believe that this 16 document would have been provided to the patent 17 department at some point in the early '90s?
- 18 A The early '90s?
- 19 MS. WOLF: Objection.
- 20 THE WITNESS: I can't tell you what happens with
- this document. What I can tell you I typed it in and 21 distributed it and then took its way. 22
- 23 MR. SHIMOTA: Q And the people to whom it was 24 distributed would have been Mr. Braun, Dr. Pahl and

- 1 leader of the shaver department. He should know what is
- happening in this department.
- 3 Q Did you know whether Dr. Pahl had personally
- worked on the shaver cleaning system at this time? When
- 5 I say at this time, I mean approximately August of '93.
  - A That depends on the definition of personally
- worked. I'm sure that he did no sketches on the big
- 8 box, he did not -- no calculations. I cannot imagine that he did special investigations in the lab or
- 10
  - Q Well, at this point in time had you seen a
- 12 shaver cleaning -- had you actually seen a physical
- 13 shaver cleaning system?
- 14 A Yes, but this was more -- different to what
- 15 appeared in the market later on.
- 16 Q This was in early -- this was an early model?
  - A An early model, yes.
- 18 Q And at that time did you have any knowledge as
- 19 to who had developed that model?
- 20 A The shaver cleaning model always were in
- 21 connection with Mr. Braun, yes.
- 22 Q So it was your belief that Mr. Braun had
- 23 developed the model of the shaver cleaning system?
  - A Yes.

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1	Page 37	1	
1		1	an axial blowing system and that was one result that the
2	the shaver cleaning system?	2	whole system can be improved when you change from the
3	A Yes, it was quite obvious. I cannot tell you	3	axial system to the so-called trommelrotor.
4	whether he came to me and tell me here, I developed this	4	Q Do you know when that second milestone would
5	model. I assumed it.	5	have occurred approximately?
6	Q Well, in general how did you start working with	6	A Not exactly. I'm not sure whether Mr. Braun or
7	Mr. Braun on the shaver cleaning system?	7	later Jurgen Höser did this step.
8	A Okay. It's long time ago. I can't tell you	8	Q What would you need to see in order to be able
9	how the start was exactly. Normally we had phone calls,	9	to answer my question, if anything? Let me reask that.
10	can you give me a hint, do you have additional ideas,	10	Are there any documents which would refresh
11	can we come together to discuss this and so on.	11	your recollection as to when the selection of the
12	Q Do you have any recollection as to how much	12	particular fan occurred?
13	earlier than August 3rd of '93 you would have begun	13	A If you could show me the models and maybe in
14	working with Mr. Braun?	14	the meantime you know the time when they were built,
15	A In my feeling we started somewhere in 1993	15	then I can tell you this model has an axial fan and this
16	because especially this paper belongs to the first step	16	was the first with the other system.
17	I explained to find out parameters which we need to have	17	Q We might be able to do that. Were there any
18	a good drying result finally, yeah.	18	other milestones aside from the first and second
19	Q You see at the top of this page at least in my	19	well, you described this document as a milestone. You
20	English version it says meeting notes.	20	remember a second. Were there any other milestones?
21	A Yes.	21	A It depends on the definition of milestone, of
22	Q Was it regularly your practice I think you	22	course. During the third development period we had a
23	said earlier you had a practice if a project was	23	lot of detail work together with the guys in the Höser
24	important enough you would type out meeting notes.	24	group because it's not only important to have the
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Page 38

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Yes.

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Am I correct this was a project that you considered important?

MS. WOLF: Objection.

You can answer.

THE WITNESS: Maybe this was the kind of milestone. At that time it was important to document that before you spend a lot of money trying this or that, and maybe a third method you should know what -- which parameters you have to know to go forwards in the right direction without losing time and money. And in this context it's helpful to have more or less shop document and to fix 12 the main ideas, yeah, that was it.

MR. SHIMOTA: Q Do you recall -- at or near this time period do you recall whether any other milestones occurred?

16 17 A I think a second milestone after we know more or less what we need here is to in combination with 18 maybe the second step to decide what I sketched here 19 that this type of blower is the correct one and not 20 21 different blowers they might have used before because at that time Braun also produces small hair care appliances 22 and inside we had small blowing systems. And I can 23 24 remember they -- he started to build up his model with

Page 40 perfect blowing wheel itself, but also the whole

surrounding has to be adopted, especially when you use 2 blowers s like this. 3

Q How does it -- was it adapted the way we discussed earlier, the surrounding, or you mean something different?

MS. WOLF: Objection.

THE WITNESS: What you need if you have a look from the top and, finally, air has to leave the system somewhere here, but, you know, it blows out air everywhere around the circumference, and then you 12 have -- let me say to collect this airflow and direct it to this main area.

And this is done with a kind of spiral geometry. And this spiral geometry has to be good 16 enough -- not something like this, bigger, bigger, but very continuous, continuously, this was one point. And 18 also the air comes in from this direction and somewhere 19 in the outer surface the whole system has an opening, 20 and also this geometry can be optimized if this is the final point where the air goes in here, and then the 22 geometry up to this point, it's -- it's not bad if it has the basic shape like this, and this in combination 24 with given design of the whole appliance and -- if I can

10 (Pages 37 to 40)

Page 39

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Page 41 1 remember the whole system had a special angle inside that makes it a little bit more tricky. Especially this point to mention perhaps one detail. After the blower 4 you have a high pressure and here you have the normal 5 pressure, the ambient pressure, and it's always helpful if you have geometry here that it's not possible or not 7 so easy possible to let the airflow back then the 8 efficiency is not so high. 9 MR. SHIMOTA: Q You mentioned that a special angle, 10 is that a special angle in the trough to enable 11 draining? 12 MS. WOLF: Objection. 13 MR. SHIMOTA: Q Do you recall that? 14 Yes, the whole shaver is not in the correct 15 angle positioned inside, but maybe to 50 or 10 -- turned in two directions, and, therefore, also the final cross 17 sectional area to provide air to the head of the shaver 18 cleaner should have --19 THE INTERPRETER: Angle or tilt. 20 THE WITNESS: The same angle, yes. 21 MR. SHIMOTA: Q Would that have been around 1987 where there would have been tilt to the --22 23 A I know these details I discussed together with 24 Jurgen Höser well as Alf Jahn, and later also with

Page 43 record of at 11:37 a.m. Here continues tape 1. 2 MR. SHIMOTA: Q If you could direct your attention 3 again to defendant's Exhibit 38, please. I'll read in 4 English and you can look at the German version, of 5 course. It states -- in the title it says, principle of 6 the prototype, actual state.

What do you mean by principle of the prototype?

- The prototype means they already had a principle sample, functional sample available and -yes. I think he showed it to me, and as I can read here 11 he complained about noise, that it's not efficient 12 enough.
- Q So is this -- is it correct that this is a 14 description -- at least a description of some of the operation of the prototype which Mr. Braun showed to you?
- 17 Yeah, yes, sir.
- 18 Q It states in the first sentence, the used 19 shaver is placed downwards with the soiled shaver head 20 into the cleaning device and is firstly rinsed with 21 cleaning fluid and is then dried in a coiled air stream. 22 Do you see that?
- 23 Yeah. Α
  - What did you mean by cold air stream?

Page 42

1 Norbert Kreutz.

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2 Q Were there any other milestones aside from what 3 we've just discussed which you can think of?

A No, I think if we call it milestone these are the basic steps. Everything else is more or less detail belonging to the tool itself and to things like here.

- Q I think you said you worked on this project, and I suppose I'm not saying continuously, but I worked on this project over a period -- well, your work on the shaver cleaning system took place over approximately 5 years, is that correct?
  - That was my feeling before and up to now, yeah.
  - Would you characterize your work as difficult?
- Not difficult. It was interesting because this system is different to what we normally have in hair dryers and the rules and the formulas are a little bit different and, therefore, it was interesting for me.

18 MS. WOLF: Jim, when you get to a good point, if we 19 could just take a break for a few minutes.

20 MR. SHIMOTA: Sure. Why don't we take one now. THE VIDEOGRAPHER: We're going off the video record 21 22

of tape number 1 at 11:24 a.m. 23 (Off the record)

THE VIDEOGRAPHER: We're going back on the video

With ambient temperature.

2 Q You mean room temperature? Yeah. That's same 3 thing. 4

So is it correct that the control type that you're describing was not heating the air from the blowers?

Α Yes.

Q It states in the next sentence, the drying times are, however, still too long according to Mr. Braun or the drying room result is not satisfactory.

Do you recall how long the drying times were approximately at that point?

- A I can't remember this.
- Would it have been longer than an hour?
- 15 I don't think so. Not longer than an hour. Finally, my cleaning station at home needs approximately 17 maybe 15 minutes for the whole process and -- 15 or 20 18

minutes.

- 19 Q Was -- was -- at that point in time to the best 20 of your recollection was 15 minutes approximately the 21 target that you and Mr. Braun were shooting for?
- 22 MS. WOLF: Objection.
- 23 THE WITNESS: I don't know exactly.
  - MR. SHIMOTA: Q It also says that or the drying

11 (Pages 41 to 44)

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Aside from the time length, was there anything else that you recall which was unsatisfactory?

A What can happen is that the head of the shaver was already dry in one corner and the other corner was still wet so that the distribution was not so perfect.

O And why did that affect occur?

8 One reason could be that the airflow was not 9 distributed -- not evenly, but has a spot at one side 10 and too less airflow at the other point.

11 Q Do you recall any other drying results which 12 were unsatisfactory?

13 A No, it took too long time and maybe it was 14 uneven, yes.

15 Q And it says in the second sentence that a further problem was the noise from the blower? 16

A That's right.

18 And is the noise -- would the noise be similar 19 to what you would hear with a hair dryer today?

20 A Depends on the definition of similar. Because it's similar to the hair dryer when you compare it to 21 22 the noise of a music instrument, for instance.

Q Well, how -- what -- to the best of your 24 recollection what about the sound was disturbing, just

Page 45 outer diameter? 1

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2 A Outer diameter, yes.

3 Underneath that paragraph it states improvement 4 of the drying qualities. Do you see that?

Page 47

Page 48

A Uh-huh.

Q Was it the purpose of your meeting with Mr. Braun to discuss how to improve the drying qualities of the shaver cleaning system?

Yes.

10 Did Mr. Braun ask for your advice as to how to 11 improve the drying system -- excuse me. Improve the drying in the shaver deaning system. 12

Yes, he asked for my experience and advice. 13

And, in general, what did you advise Mr. Braun?

15 I think the main points are also written down 16 in this paper. The -- as I can see it now it was not quite clear how many -- which quantity of airflow they 17

really need to have a good result, and it's possible

with different methods to create an airflow to find out 20 what you -- to first to find out what you need. And I

think I made some suggestions how this could be realized 21

to find out what is a good solution and what you can 22

23 also do certain variations of this.

Q Would that be represented by the drawings in

Page 46

1 the volume or --

2 A As I can conclude from what I see here they 3 used a rather small axial blower from a hairstyler, long but thin diameter. Therefore, it was necessary to increase the speed of the motor, and this is always the 5 reason for higher velocity and also for what we call 6 sharp discrete peaks, something like a whistle, nervous 7 8 -- not nervous, but nerving --9 You heard a whistling sound?

10 A Yes, always the same tone and not continuous or -- even sound. 11

Q I understand. It also lists there, I think, 31 12 13 millimeters?

A That's what they found and what was feasible for this first models, small, small blower.

What dimension is the 31 millimeters referring 16 Q 17 to?

A It should belong to the outer dimension of the blower itself. Normally the blower is in a shroud, and 19 then what's really of interest for the function is the 20 outer dimension of the blower. Because if you increase the thickness of the wall of the shroud then that cannot 22 help but makes it only thicker.

Q When you say outer dimension, you mean the

1 the memo?

A Yes, also.

Q Were there any other -- aside from what's represented in the drawing, were there any other suggestions that you made? Let me ask this. I'm sorry. I thought maybe the question was confusing.

Not so easy to answer.

There are -- underneath it says improvements of the drawing quality, then there are numbered paragraphs, 10 1 through 5. Do the numbered paragraphs numbered 1 through 5 represent suggestions that you made to 11 Mr. Braun for improving the drying in the shaver 12 cleaning system? 13 14

A Yes. Here we try to summarize the points we worked out together and the points we discussed.

Q Okay. I mean, for example, in point 4 there's recommended it states in the case, the drying still takes too long with these measures. The installation of a small heater for the air stream should be discussed.

Now, did you suggest to Mr. Braun to -- he might want to include a heater with the blower to improve the drying?

23 A I cannot answer with yes because it's hard to 24 remember. If you deal with hair dryers then that's a

12 (Pages 45 to 48)

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	Page 49		Page 51
1	known principal, but not only for me also for other all	1	blower and a heater element was not new at all for
2	others here in the company.	2	appliances we built, case of hair dryers.
3	Q Well, the participants in this meeting were	3	MR. SHIMOTA: Q I understand. So I guess back
4	yourself and Mr. Braun, correct?	4	right before the break we I asked you whether you
5	A Yes.	5	considered your work on the shaver cleaning system to
6	Q So is this reflecting discussions you had with	6	be I think I used term the difficult whether you
7	Mr. Braun, is that correct?	7	considered your work on the shaver cleaning system to be
8	A Yes, but here our common ideas are written	8	challenging.
9	down, not only my opinion. It's what we discussed	9	A Yes, it was some kind of challenging because as
10	together, what we found out together.	10	I told you it was not the system was difficult to
11	Q So point 4 well, is point 4 to the best of	11	what we normally use in hair dryers, and, therefore, it
12	your recollection a common idea that you had with	12	was challenging and interesting to complete the
13	Mr. Braun?	13	knowledge in this knowledge in this special
14	A Maybe this belongs to patent situation. I	14	direction.
15	cannot definitely tell you now whether he already had	15	Q And what was challenging about the work in
16	the idea to combine it with a heater or whether it comes	16	particular?
17	from my side because it's not so not so far away.	17	A Yes. Normally you have to develop in
18	Everyone knows if the air is a little bit hotter then	18	connection with hair dryers a system which finally
19	it's helpful to dry something.	19	provides high pressure. And as I explained before, and
20	Q When you say everyone knows, what do you mean	20	here you need to find a system which basically gives you
21	by everyone?	21	a high velocity. And that was the main difference
22	A Everyone maybe everyone in this room even	22	besides the whole geometry and things like that.
23	knows.	23	Q And these were these challenges which you
24	Q You give me a lot of credit.	24	had encountered previously in your work at Braun?
	· ·		, , ,
		<u> </u>	
	Page 50	T	Page 52
1	rage 50		rage 32

A Hot air. Hot air is always better than cold.

Q Well, if Mr. Braun did not suggest using a

- 3 heater with the fan in this meeting, is it fair to say
- 4 it would have been your suggestion?
- 5 MS. WOLF: Object as to form.
- 6 THE WITNESS: If not what would have happened?
- 7 MR. SHIMOTA: Q Let me ask this question. Would
- 8 there have been anyone else at this meeting aside from
- yourself and Mr. Braun who would have suggested using a
- 10 heater with the fan?
- 11 MS. WOLF: Objection.
- 12 THE WITNESS: In this meeting we were he and me and 13 no one else so far.
- 14 MR. SHIMOTA: Q So it was yourself and Mr. Braun.
- 15 A Myself and Gebhard Braun I think is his first
- 16 name, Gebhard Braun.
- Q Is there anything which would be able to assist 17
- 18 you in remembering whether or not the idea to use the
- 19 heater would have been yours or Mr. Braun's or a joint
- 20 idea?

2

- 21 MS, WOLF: Objection.
- 22 THE WITNESS: If you can find the paper showing the
- heater then I could not answer if the idea already 23
- exists, if it was new. Basically a combination of a 24

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Yes. Α

2 What situations have you encountered those Q 3 challenges? 4

A During these first years I did not -- I worked in the research department and here it -- my task was not only to develop axial blowers, axial fans, especially for hair dryers, but also for other blowing systems, also for kitchen machines, for ventilators and, finally, for an idea like this. And, therefore, it was the whole range I tried to occupy with my knowledge.

Q And do you know why Mr. Braun -- did Mr. Braun ever express any reason which he asked you in particular to help him with the work on the shaver cleaning system?

A That was more or less a normal practice. You start with a project for your own and after these first steps if something more complicated occurs, then you get in contact with at least so-called experts.

Q So -- I mean is it generally the case at Braun that as the design is progressing if a particular problem is encountered then an engineer will seek an expert to assist him?

Α Yes.

23 Q And in assisting Mr. Braun to overcome these 24 problems with the prototype, you called upon your expert

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	Page 53		Page 55
1	the expertise that you had gained through both your	1	directly to the point where the foil is still is wet
2	education and your experience at Braun, is that correct?	2	and not somewhere around where you don't where it
3	MS. WOLF: Objection.	3	makes no sense for it to pass, then the efficiency can
4	THE WITNESS: Yes.	4	be increased. Also to direct the air flow directly to
5	MR. SHIMOTA: Q If you could turn back to the first	5	the point where it's needed.
6	page of this document. If you see listed under the	6	Q That was the purpose of having the nozzles
7	second bullet point there's indicated a laminar flow	7	being small?
8	element for flow rate measure. Do you see that?	8	A Yes, yes.
9	A Uh-huh.	9	Q Relatively or —
10	Q Tell me what your understanding of the laminar	10	A If it's small then the velocity can be higher
11	flow element is?	11	up to a certain amount. If you make it really very,
12	A This is a special measuring instrument to	12	very small then the opposite thing can happen, yes.
13	measure the amount of airflow passing through a system,	13	Q Under the fourth bullet point it states that
14	through a pipe, small pipe.	14	the holder for shaver head with improved air ducting.
15	Q What would the purpose of the laminar flow	15	What did you mean by holder for shaver head?
16		16	A Second, please.
17	A The discussion was not like this to integrate	17	Q Sure.
18	it into the system, but to use it to find out which	18	A I think this belongs to geometry of the of
19	parameters, especially which airflow would be optimal	19	where you put the shaver head inside. If this geometry
20	for the system. So the idea was to measure the airflow	20	is different to the shape of the shaver itself, then it
21	outside with this kind of instrument because if you only	21	can cause troubles. If this is the shaver head, and the
22	·	22	geometry would have been like this, that's not optimal.
23	how long it takes to dry something, but, finally, you do	23	It's better to have a more or less similar geometry
24		24	around the head of the shaver.
	Page 54		Page 56
1	measure it and that's not so easy sometimes.	1	Q When you say relatively, how to your
2	DR. STUTIUS: Trivial.	2	recollection how closely would the holder conform to the
3	THE WITNESS: Not so trivial.	3	shape of the shaving head?
4	MR. SHIMOTA: Q What when can it be difficult or	4	A Well, the design sign of the shaver itself has
5	nontrivial, under what circumstances can it be	5	a lot of details on here, on the left and right side.
6	nontrivial?	6	And for the cleaning center it's more or less only
7	A In general if I blow like this, nobody knows	7	important to have the main outer shape in a certain
8	how many liters per second go through my hand now. And	8	length.
9	to know this you have to use instruments like this.	9	Q Do you know similar to the question I asked
10	There are a lot of different instruments and this is	10	before. The improved air ducting, whether that would
11	I think a very precise instrument to find this out.	11	have been your idea, Mr. Braun's idea or an idea which
12	Q How did you learn about measuring or	12	you developed together?
13	instruments for measurement of the sort we're talking	13	A Air ducting is of course, he ask me what can
14	about?	14	be, what can I improve with the whole geometry to have a
15	A I think that was part of my job here, not only	15	better result finally. And there are several points as
16	theory, but also lab work and practical things.	16	maybe I sketched here. This would be an example for a
17	Q So would have been some of the education you	17	bad air ducting and that's obviously better there.
18	received either through your studies at the university	18	Q Okay. Do you know if if when you expressed
	or practical experience at Braun?	19	
19	·		these idea that particular idea to Mr. Braun whether
20	A Yes, learning on the job.	20	he disagreed with you?
21	Q And I guess for testing, if you look to the	21	MS. WOLF: Objection.
22	next bullet point, what would have been the purpose of	22	MR. SHIMOTA: Q Let me ask it. You're right.
23	the one or more narrow inflow nozzles?	23	Did Mr. Braun ever express disagreement to you

24 with -- did Mr. Braun ever express disagreement with the

A The idea was if you concentrate the airflow

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Page 57 Page 59 ideas that you presented to him? with Mr. Braun? 1 2 A No, I don't think so. It was a technical 2 A This comes from the discussion. Exactly I 3 discussion not a principle discussion. 3 cannot tell you. 4 Q When you say a technical discussion as opposed 4 Q So this would have just arisen out of the 5 to a principle discussion, what do you mean? 5 discussions you were having with Mr. Braun? 6 A Technical discussion you can argument with 6 Yeah, yes. 7 formulas, with technical knowledge, and that's different 7 Q Why was a slightly inclined inflow 8 maybe discussion about what you believe or what you do advantageous? 8 9 in your leisure time. 9 A The catches -- partly can answer this. If --Q I see what you mean. If you look under point 10 10 again this is the shaver head from the side and this is 11 1, it says, the nozzle shaped inflow on the outlet 11 bottom. If the airflow starts here then it has the cross-cut should have the same longish, narrow shape as 12 12 chance what you do not want to go in this and this the shaving foils. Do you see that? 13 13 direction. 14 Α Uh-huh. 14 This is the direction you want the air to pass 15 Q Why should the nozzle shape inflow on the --15 and this is a kind of loss. And if you have a system 16 well, first I'll ask you now, was that your opinion, more like this, and this is the inflow angle which is 16 17 Mr. Braun's opinion or a joint opinion? discussed here, then it has no chance for a turn around 17 18 A I think it was a joint opinion. 18 and go this way. Then it more or less 100 percent has 19 And why was that your joint opinion? 19 to take this way passing at the right position and do 20 Because it was no discussion. If this is the 20 its work. 21 side of the shaver head with the shaver here it's always 21 Q What angle would be optimal to achieve that 22 better to have the airflow from here to here and not 22 effect? 23 only here and here, like a spot, but on a 23 MS. WOLF: Objection. 24 cross-sectional area, what's written down here which has 24 THE WITNESS: It's hard to say. This is not optimal Page 58 Page 60 more or less the same size as head of the shaver. if it comes right from the top. It's the same, not 1 2 Q Same size in what respect? optimal. Somewhere in the middle or little bit less. The width of the shaver. There's no need to 3 Q So you'd need to know the shape of the holder 4 enlarge this area where the air can pass because here it 4 for the shaver head in order to answer that question, makes no sense. It passes the shaver. But if it's like 5 5 correct? this then the principle is okay. 6 6 A This question can be answered in -- when having Q Okay. So basically the holder would conform 7 all details together, you know. 7 8 tightly to the outside of the shaver head, is that what Q Okay. Was that -- how did you come to -- how 8 9 you're saying? 9 were you able to determine with Mr. Braun that the 10 slightly incline -- use the right word. The slight 10 A Yeah, yeah. And that -- well, having the outside of the 11 incline in the inflow was advantageous? 11 holder conform tightly to the shaver head was A Again the basic idea was to increase the 12 12 advantageous in terms of drying? efficiency. And as I explained here, we looked for ways 13 13 A Yes, because then the efficiency can be that each particle inside this air flow is helpful for 14 14 15 increased, yeah. 15 this purpose here, what do you want to do. 16 Q I think you said it's always better, is that Q Well, how were the two of you able to come to 16 17 correct? 17 the last conclusion expressed under point 1 is my 18 A Yeah, if you imagine air passing in regions 18 question. 19 like here, it's more or less useless. 19 A Point 1.

Q The statement a slightly inclined inflow in

A One reason as I tried to explain here, other

angles are not so advantageous, therefore, it's always

direction of the tip of the shaver head is also

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advantageous.

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Q If you look in the last sentence under point 1,

Mr. Braun's opinion or an opinion you developed jointly

it says a slightly inclined inflow in the direction of

the tip of the shaver head is also advantageous.

I'll ask you, was that your opinion,

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Page 61 helpful to have no additional obstacles in the airflow, 2 and this is one way to realize this. 3 Q You were able to -- were you -- I guess my 4 question is, were you able to come to this conclusion 5 based upon your past experience and course work? 6 A Of course, if you read a lot of literature and 7 books about fluid dynamic resistance and rules about 8 this then this is common knowledge more or less. Q That would be a relatively select group though, 9 10 people who have that knowledge, correct? 11 A Again please. 12 That's not -- that's a smaller portion -- a 13 relatively small portion of the general populace who 14 reads a lot of books on fluid mechanics? 15 A Maybe it's also in the lesson how --16 DR. STUTIUS: Skilled in the art.

THE WITNESS: Baseless. MR. SHIMOTA: Q Withdraw that question. A Avoid corners and edges and all things like

this. Q Under point - direct your attention to point 2. It says the blower used must, therefore, be in a position to build up a relatively high pressure for the flow through of this nozzle/these nozzles and the

Page 63 characteristics. To use these formulas you need at 2 least these four basic data like pressure, air flow, RPM 3 and diameter and so on.

Q Did you perform calculations on that point?

Yes, yes. This example is a kind of calculation like this.

You're pointing to Exhibit 40?

Α Exhibit 40, yes.

Q We'll get to that in a second. Under point 2 again, states at the bottom, the performance of a small Mabuchi CF air styler is adequate. What was a small 12 Mabuchi?

A There is some Mabuchi, Mabuchi, different names, Mabuchi Company producing small DC motors for a lot of different appliances and depending on how many air you need, the amount of airflow, you have to choose more or less bigger size or small one. And here the estimation was that the wattage of more or less small motor is sufficient to deliver the airflow you need.

Q Were you recommending the use of a Mabuchi 21 motor in particular as opposed to a motor from a different manufacturer?

That's only a statement belonging to the power 24 you need, not to the special company Mabuchi and not to

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- subsequent flower systems. Do you see that? 1

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- 3 Why was that -- why is that opinion expressed 4 in this memo?
- 5 A As I mentioned before there is a strong 6 connection by formula between the air velocity and the 7 pressure. It's always easy if you have pressure to 8 create velocity, and, therefore, if your aim is to press 9 a certain airflow through a given geometry of a nozzle, you need a certain amount of pressure to do this, and 10 that's basic idea which is expressed here. 11
- 12 Was that your idea, Mr. Braun's idea or a joint Q 13 idea?
- 14 Α This formula exists a very long time before, 15 Bernoulli and company.
- DR. STUTIUS: 1800. It's called dynamic pressure. 16 17 MR. SHIMOTA: Did you think then this was -- the
- principle expressed there was obvious? 18
- 19 MS. WOLF: Objection.
  - THE WITNESS: Yes.
- 20 MR. SHIMOTA: Q Is that why in the next sentence --21
- because of that equation in the next sentence you say 22 23 arithmetic estimates are possible?
- 24 Yes. That belongs to the -- the dimensionless

this or that motor, maybe only to this motor series.

- Q Okay. Do you recall what was the wattage for
- 3 the motor used at that time?
  - A No, I cannot remember.
- 5 Q Do you recall whether there would have been any
- 6 documents detailing which motor was used? 7
  - A If they use the motor inside the air styler
- 8 because we can look in the documents in the parts list
- 9 which motor is -- has been inside, but I don't know now. 10 Q Which documents -- when you say a parts list,
- 11 what are you referring to?
- 12 A That our normal documents, the company needs to
  - -- drawings and parts list that you know how to assemble
- 14 a device or new appliance.
  - Q Procurement documents, documents which illustrate what the parts are for a particular device?
- 17 A Yes. Each part has a part number and a name
- and so on, and inside the parts list you write down how 19 many of these parts you need and in the combination to
- 20 other parts and so on.
  - Q You said that's normal practice at Braun?
- 22 MS. WOLF: Objection.
- 23 THE WITNESS: Yes. Everywhere I think in the
- 24 technical company.

16 (Pages 61 to 64)

Page 64

Page 65 Page 67 liquid will stay in this small channel here and, 1 MR. SHIMOTA: Q And is that -- I mean what you do 2 in your normal practice when building a device that you 2 therefore, also you need an optimum size. 3 have a parts list? 3 Q Did you ever determine what the optimum size 4 Α Yes. 4 was? 5 If you could look under point 3 on this memo. 5 A I think it was part of all these suggestions Q 6 In the second sentence it says, the holder for the 6 that they -- if they want can finally build a testing 7 shaver head must be sufficiently changed so that these 7 device to find this out. free cross cutters fall away at least laterally. 8 8 Q Okay. Was the testing device ever built? 9 Do you see that? 9 A I'm not sure. 10 A Uh-huh. 10 Q Do you have any idea who would know the answer 11 Q How did the holder for the shaver head in the 11 to that question? 12 prototype need to be changed? 12 A Of course, Mr. Braun should know. One way is 13 A As I understand it now that was more or less 13 really to build a testing device. Second possible way 14 the same situation as already described here. The air 14 is to take this idea and already realize in another more can pass also in this and these areas here and, 15 sophisticated functional model. therefore, if you -- it was a suggestion if you make it 16 Q I understand. In the last sentence under point 16 3 it says that a seal of a gap would also be helpful. smaller then it's good for efficiency. 17 17 18 Q I understand. I guess at least, you know, 18 Explain what you mean by a seal of the gap. 19 putting aside the last 2 points we haven't discussed, 19 A This belongs to a detail I cannot remember 20 just generally characterizing points 1 through 3, is it 20 right now. Maybe if there was a special geometry for the liquid to flow away. I cannot remember this detail the point of this memo to state that basically what 21 21 22 you've illustrated in that drawing that the holder 22 now. 23 should be made a little bit smaller on the sides? 23 Q Okay. 24 MS. WOLF: Objection. 24 THE VIDEOGRAPHER: Counsel, can we change tapes? Page 68

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- THE WITNESS: Smaller on the sides? 1
- 2 MR. SHIMOTA: Q Tighter.
- 3 Tighter belongs to point 3, I think.
- 4 Okay. Set that aside. Point 3 is basically 5 making the recommendation that the holder should be 6 tighter on the sides?
- 7 Yes, that's what I can read here, yeah.
- 8 Q Do you know if that was your idea, Mr. Braun's 9 idea or an idea you two developed jointly?
- A Again I would say a common idea, a known 10 principle. 11
- Q The next sentence it states, the gap blow the 12 13 head should only be large enough so that the cleaning 14 fluid can flow away.
  - A Yes.

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- Q How large or how much -- how large -- what was 16 17 an appropriate gap below the shaving head?
- A I think this sentence belongs to this sketch 18
- 19 here. If -- of course, if you can imagine it's too
- large then the air can pass here close to the head and 20
- it can pass here and only the airflow close to the head 21
- gives a contribution for the drying result and, 22
- 23 therefore -- if on the other hand if it's -- what I
- 24 tried to remember right now, if it's too small then the

1 MR. SHIMOTA: Yes.

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- THE VIDEOGRAPHER: Here concludes tape 1. We are going off the video record at 12:23 p.m.
  - (Off the record)

THE VIDEOGRAPHER: Good afternoon. We are going back on the video record at 12:26 p.m. Here begins tape 2.

8 MR. SHIMOTA: Q Welcome back. If you look again at 9 the document we've been discussing. Under point 5 it states when using one, then it's underlined, motor for 10 driving the fluid pump in the blower, the additional 11 cost of electronic and mechanical regulation should be 12 13 considered as both systems operate with different rotational speeds and motor loads and must be inserted 14 15 next to each other.

Do you see that?

- 17 Uh-huh.
- 18 Q Do you recall why you underlined -- underscored 19 the word one?
- 20 A Because now I cannot tell you why I underlined this some years ago. But it was the main idea which was 21 22 discussed, one motor for both systems.
- 23 DR. STUTIUS: I think it's from the German because
- 24 it's -- it's also in -- indefinite article. One could

17 (Pages 65 to 68)

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	Page 69		Page 71
1	be in German A, and it could also be a single. So if	1	points does sketch 1 correspond with in your list?
2	you want to emphasize a single you would underline one,	2	A As documented it's basically connected with
3	A, with an eines for that emphasis.	3	point 1.
4	MR. SHIMOTA: Q I understand. Why did you say it	4	Q And for sketch 2, can you tell me basically
5	was the main idea or why was it the main idea?	5	what is represented by sketch 2?
6	MS. WOLF: Objection.	6	A Yes, here. Point 3. That basically shows that
7	THE WITNESS: It was the main point of this idea.	7	it's better to have no free areas around the shaver
8	If you have technical discussions can we do this like	8	head, not to allow the air to pass easily without any
9	this, what can happen, if and so on.	9	contribution.
10	MR. SHIMOTA: Q For this point here for point 5	10	Q Well, the area with the little dots, is that
11	do you recall whether that was the idea of yourself,	11	representing the shaver head with stubble in it?
12	Mr. Braun or a joint idea?	12	A Yes, not the holes in it.
13	A I don't think that it was my idea because I	13	Q Oh, the holes. Those would be holes in foil?
14	always try to have separate motor for my fan.	14	A Yes, the holes in the foil.
15	Q So for point 5 you at least it's your belief	15	Q This is basically if I don't know if you
16	that was Mr. Braun's idea?	16	have your drawings here still. Excuse my reach.
17	A At least not my idea.	17	Sketch 2, does that roughly correspond with
18	Q Okay. If you could look again at point 4, now	18	what we were discussing here?
19	that we've taken the time to go through this memo in	19	A Yes. Here in combination with here.
20	detail, I was wondering if you had any better	20	Q Okay. And for sketch 3, can you explain to me
21	recollection as to whether the idea in point 4 was your	21	what is represented by sketch 3?
22	idea, Mr. Braun's idea or a joint idea?	22	A The shaver head at that time was already
23	A Hard to say. Maybe a joint idea, obvious idea.	23	movable and, therefore, we had the idea if the shaver is
24	Q Did you say an obvious idea?	24	fixed in the cleaning center then the head turns to
	, ,		J
_	Page 70		Page 72
1	A Yes.	1	maybe to this direction, and then it's it's helpful
2	A Yes. THE INTERPRETER: Plausible.	2	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of
2	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind.	2 3	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.
2 3 4	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind. MR. SHIMOTA: Q I'll just ask you again the German,	2 3 4	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.  Q Why was it helpful?
2 3 4 5	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind. MR. SHIMOTA: Q I'll just ask you again the German, go through this briefly. If you could just tell me	2 3 4 5	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.  Q Why was it helpful?  A If the opposite would have been realized like
2 3 4 5 6	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind. MR. SHIMOTA: Q I'll just ask you again the German, go through this briefly. If you could just tell me starting at the top, there's listed sketch 1. Can you	2 3 4 5 6	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.  Q Why was it helpful?  A If the opposite would have been realized like this and the air comes from here, this part would have
2 3 4 5 6 7	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind. MR. SHIMOTA: Q I'll just ask you again the German, go through this briefly. If you could just tell me starting at the top, there's listed sketch 1. Can you tell me what is represented by sketch 1 or what	2 3 4 5 6 7	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.  Q Why was it helpful?  A If the opposite would have been realized like this and the air comes from here, this part would have had a good drying and here we call it
2 3 4 5 6 7 8	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind. MR. SHIMOTA: Q I'll just ask you again the German, go through this briefly. If you could just tell me starting at the top, there's listed sketch 1. Can you tell me what is represented by sketch 1 or what principle that we discussed that corresponds to?	2 3 4 5 6 7 8	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.  Q Why was it helpful?  A If the opposite would have been realized like this and the air comes from here, this part would have had a good drying and here we call it DR. STUTIUS: Dead zone.
2 3 4 5 6 7 8 9	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind. MR. SHIMOTA: Q I'll just ask you again the German, go through this briefly. If you could just tell me starting at the top, there's listed sketch 1. Can you tell me what is represented by sketch 1 or what principle that we discussed that corresponds to? A Sketch 1 I think shows the position of the	2 3 4 5 6 7 8 9	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.  Q Why was it helpful?  A If the opposite would have been realized like this and the air comes from here, this part would have had a good drying and here we call it DR. STUTIUS: Dead zone.  THE WITNESS: Dead zone with not so high airflow
2 3 4 5 6 7 8 9 10	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind. MR. SHIMOTA: Q I'll just ask you again the German, go through this briefly. If you could just tell me starting at the top, there's listed sketch 1. Can you tell me what is represented by sketch 1 or what principle that we discussed that corresponds to? A Sketch 1 I think shows the position of the nozzle in relation to the head of the shaver. The	2 3 4 5 6 7 8 9 10	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.  Q Why was it helpful?  A If the opposite would have been realized like this and the air comes from here, this part would have had a good drying and here we call it DR. STUTIUS: Dead zone.  THE WITNESS: Dead zone with not so high airflow here in this region, and the drying result is worse and
2 3 4 5 6 7 8 9 10	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind. MR. SHIMOTA: Q I'll just ask you again the German, go through this briefly. If you could just tell me starting at the top, there's listed sketch 1. Can you tell me what is represented by sketch 1 or what principle that we discussed that corresponds to? A Sketch 1 I think shows the position of the nozzle in relation to the head of the shaver. The	2 3 4 5 6 7 8 9 10	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.  Q Why was it helpful?  A If the opposite would have been realized like this and the air comes from here, this part would have had a good drying and here we call it DR. STUTIUS: Dead zone.  THE WITNESS: Dead zone with not so high airflow here in this region, and the drying result is worse and if you turn it a little then yeah, it was our idea
2 3 4 5 6 7 8 9 10 11 12	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind. MR. SHIMOTA: Q I'll just ask you again the German, go through this briefly. If you could just tell me starting at the top, there's listed sketch 1. Can you tell me what is represented by sketch 1 or what principle that we discussed that corresponds to? A Sketch 1 I think shows the position of the nozzle in relation to the head of the shaver. The nozzle is — DR. STUTIUS: The düse.	2 3 4 5 6 7 8 9 10 11 12	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.  Q Why was it helpful?  A If the opposite would have been realized like this and the air comes from here, this part would have had a good drying and here we call it DR. STUTIUS: Dead zone.  THE WITNESS: Dead zone with not so high airflow here in this region, and the drying result is worse and if you turn it a little then yeah, it was our idea that we can improve it.
2 3 4 5 6 7 8 9 10 11 12 13	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind. MR. SHIMOTA: Q I'll just ask you again the German, go through this briefly. If you could just tell me starting at the top, there's listed sketch 1. Can you tell me what is represented by sketch 1 or what principle that we discussed that corresponds to? A Sketch 1 I think shows the position of the nozzle in relation to the head of the shaver. The nozzle is — DR. STUTIUS: The düse. THE WITNESS: Düse and crossed area you can see	2 3 4 5 6 7 8 9 10 11 12 13	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.  Q Why was it helpful?  A If the opposite would have been realized like this and the air comes from here, this part would have had a good drying and here we call it DR. STUTIUS: Dead zone.  THE WITNESS: Dead zone with not so high airflow here in this region, and the drying result is worse and if you turn it a little then yeah, it was our idea that we can improve it.  MR. SHIMOTA: Q So the swiveling of the foil or
2 3 4 5 6 7 8 9 10 11 12 13	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind. MR. SHIMOTA: Q I'll just ask you again the German, go through this briefly. If you could just tell me starting at the top, there's listed sketch 1. Can you tell me what is represented by sketch 1 or what principle that we discussed that corresponds to? A Sketch 1 I think shows the position of the nozzle in relation to the head of the shaver. The nozzle is — DR. STUTIUS: The düse. THE WITNESS: Düse and crossed area you can see here.	2 3 4 5 6 7 8 9 10 11 12 13 14	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.  Q Why was it helpful?  A If the opposite would have been realized like this and the air comes from here, this part would have had a good drying and here we call it DR. STUTIUS: Dead zone.  THE WITNESS: Dead zone with not so high airflow here in this region, and the drying result is worse and if you turn it a little then yeah, it was our idea that we can improve it.  MR. SHIMOTA: Q So the swiveling of the foil or pivoting of the head, did that improve the drying
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind. MR. SHIMOTA: Q I'll just ask you again the German, go through this briefly. If you could just tell me starting at the top, there's listed sketch 1. Can you tell me what is represented by sketch 1 or what principle that we discussed that corresponds to? A Sketch 1 I think shows the position of the nozzle in relation to the head of the shaver. The nozzle is — DR. STUTIUS: The düse. THE WITNESS: Düse and crossed area you can see here. DR. STUTIUS: The hatch.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.  Q Why was it helpful?  A If the opposite would have been realized like this and the air comes from here, this part would have had a good drying and here we call it DR. STUTIUS: Dead zone.  THE WITNESS: Dead zone with not so high airflow here in this region, and the drying result is worse and if you turn it a little then yeah, it was our idea that we can improve it.  MR. SHIMOTA: Q So the swiveling of the foil or pivoting of the head, did that improve the drying process?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind. MR. SHIMOTA: Q I'll just ask you again the German, go through this briefly. If you could just tell me starting at the top, there's listed sketch 1. Can you tell me what is represented by sketch 1 or what principle that we discussed that corresponds to? A Sketch 1 I think shows the position of the nozzle in relation to the head of the shaver. The nozzle is — DR. STUTIUS: The düse. THE WITNESS: Düse and crossed area you can see here. DR. STUTIUS: The hatch. THE WITNESS: The hatched area.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.  Q Why was it helpful?  A If the opposite would have been realized like this and the air comes from here, this part would have had a good drying and here we call it DR. STUTIUS: Dead zone.  THE WITNESS: Dead zone with not so high airflow here in this region, and the drying result is worse and if you turn it a little then yeah, it was our idea that we can improve it.  MR. SHIMOTA: Q So the swiveling of the foil or pivoting of the head, did that improve the drying process?  A The geometry of the shaver was given and here
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A Yes. THE INTERPRETER: Plausible. DR. STUTIUS: Come to anybody mind. MR. SHIMOTA: Q I'll just ask you again the German, go through this briefly. If you could just tell me starting at the top, there's listed sketch 1. Can you tell me what is represented by sketch 1 or what principle that we discussed that corresponds to? A Sketch 1 I think shows the position of the nozzle in relation to the head of the shaver. The nozzle is — DR. STUTIUS: The düse. THE WITNESS: Düse and crossed area you can see here. DR. STUTIUS: The hatch. THE WITNESS: The hatched area. MR. SHIMOTA: Q So düse is the nozzle?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	maybe to this direction, and then it's it's helpful for the airflow to reach also to reach all points of this geometry.  Q Why was it helpful?  A If the opposite would have been realized like this and the air comes from here, this part would have had a good drying and here we call it DR. STUTIUS: Dead zone.  THE WITNESS: Dead zone with not so high airflow here in this region, and the drying result is worse and if you turn it a little then yeah, it was our idea that we can improve it.  MR. SHIMOTA: Q So the swiveling of the foil or pivoting of the head, did that improve the drying process?  A The geometry of the shaver was given and here was just idea if you move it a little bit towards the
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Case 1:03-cv-12428-WGY

Q Do you know of any documents which would assist

Q You mentioned earlier that if you had an

did the change to this special kind of blower.

opportunity to see models that might assist you in your

A Yeah, that could be helpful to remember when we

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you in recalling a date?

A No.

recollection?

19 (Pages 73 to 76)

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break.

recorded on the record?

of tape 2 at 12:41 p.m.

(Off the record)

MR. SHIMOTA: We are going to take a very brief

THE VIDEOGRAPHER: We're going off the video record

THE VIDEOGRAPHER: We are going back on the video

record at 12:54 p.m. Here continues tape 2.

Norbert Smetana April 29, 2005 Page 77 Page 79 MR. SHIMOTA: Q Welcome back. when prior to March of 1995 the special fan would have 1 2 Just for the record I'll note that I have 2 first been used in a shaver cleaning system? 3 marked Mr. Smetana's hand drawings as Smetana Exhibit 1 3 MS. WOLF: Objection. 4 through Smetana Exhibit 5 just so I don't cross over 4 THE WITNESS: I think it starts together with the 5 with Kevin in the other deposition. 5 fifth model here on the table. Not -- not the very 6 (Exhibits 1 through 5 marked as requested) last, the one before. Here -- up here we have the 7 Q That being said, Mr. Smetana, there are now on special inlet geometry and also the fan I described, the 8 the table several models of the cleaning system. If you R special position. could take the time, and I can hand them to you if you'd 9 THE VIDEOGRAPHER: Can someone move that model right 9 10 like, to look at them and see if any of them assist you 10 there? Yeah. Okay. 11 in determining or at least being able to say which model 11 THE WITNESS: Maybe the other with SDL model could 12 would have had the special fan which we've discussed 12 be helpful. No, the other one. 13 earlier. 13 For me this seems a little bit newer than this 14 Sometimes it's easy to see. If we start with 14 one, and also inside here should be an axial fan. So Α 15 this one, this is the small axial blower. I think the 15 from these models on the table now this is the only one dimension is -- should be the 31 mentioned in the -- in which shows the fan system we finally integrated. 16 16 17 17 my report. Coming from the air styler. I'm not sure MR. SHIMOTA: Q Okay. Let me ask just to be clear whether I've seen this before. I don't think so. 18 -- well, this model is from much later, much later after 18 19 What I can tell this was the smallest kind of 19 1995? 20 blower we had available in the company. 20 A Developed by Höser and his people. 21 21 Q That is -- at least basically the air styler, Q So I take it these models don't help you the 31 millimeter air styler? 22 remember when prior to March of '95 the special fan 22 23 23 above been selected? A Air styler. 24 Q I guess I'll hand you this model. 24 A It seems so. Page 80 Page 78 1 A Think I've seen this in our model shop. Maybe 1 MR. SHIMOTA: With that said, the only final 2 it was this or another one also in combination with the 2 question I would -- I would make the ask you look work of Mr. Braun. It's harder to recognize the fan 3 through your miscellaneous notebook for any additional system immediately up close. So from the first look I'm documents you have pertaining to the shaver cleaning not sure which fan is inside, but it's not what we 5 5 system. Otherwise, thanks for your time and no further finally developed because it looks like the last or very 6 6 questions. 7 last model here. 7 THE WITNESS: Do you need the answer for this 8 Q I guess my question though -- I just want to 8 question? see if you can recall either a date or in which model 9 MS. WOLF: No. the special fan would have appeared first. 10 10 THE WITNESS: Okay. 11 11

I think you told me that would have been prior to March of '95 so I figured these might help. 12

A As far as I can remember, this could belong to 13 the work of Mr. Braun and he was retired in somewhere --14 15

Q May of '95.

16 A May of '95, uh-huh, yes. So that's prior to this. I don't think that radial blowing system is 17 inside. To be sure we have to open up, but that's 18 19 not --

MR. SIEVERS: It's not a functional model. It's not 20 21 a functional model. So maybe it's only a design model. 22 This is from the design department.

MR. SHIMOTA: Q Well, sitting here today I guess my 23 question is, do any of these models help you to remember 24

MR. SHIMOTA: You're done. Thank you. THE VIDEOGRAPHER: In conclusion for April 29th, 12 2005. We are going off the video record at 1:02 p.m. 13 14 Thank you. 15 (Off the record) 16

20 (Pages 77 to 80)

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	Page 81			Page 83
1	STATE OF ILLINOIS )	1	IN THE UNITED STATES DISTRICT COURT	
	) SS:		FOR THE DISTRICT OF MASSACHUSETTS	
2	COUNTY OF COOK)	2	DOALIN Cku	
3		3	BRAUN GmbH, )	
4	The within and foregoing deposition of the	4	Plaintiff, )	
5	aforementioned witness was taken before CAROL CONNOLLY,		) ,	
6	CSR, CRR and Notary Public, at the place, date and time	5	-vs- No. 03-CV-12428 (WGY)	
7	aforementioned.	6	RAYOVAC CORPORATION, )	
8	There were present during the taking of the		RAYOVAC CORPORATION, )	
9	deposition the previously named counsel.	7	Defendant. )	
10	The said witness was first duly sworn and was	8		
11	then examined upon oral interrogatories; the questions	9	I hereby certify that I have read the foregoing	
12	and answers were taken down in shorthand by the	10 11	transcript of my deposition given at the time and place aforesaid, consisting of Pages 1 to 83, inclusive, and I	
13	undersigned, acting as stenographer and Notary Public;	12	do again subscribe and make oath that the same is a	
14	and the within and foregoing is a true, accurate and	13	true, correct, and complete transcript of my deposition	
15	complete record of all of the questions asked of and	14	so given as aforesaid, and includes changes, if any, so	
16	answers made by the forementioned witness, at the time	15 16	made by me.	
17	and place hereinabove referred to.	17		
18	The signature of the witness was not waived,	4.0	NORBERT SMETANA	
19	and the deposition was submitted, pursuant to Rule 30	18 19		
20	(e) and 32 (d) 4 of the Rules of Civil Procedure for the	20		
21	United States District Courts, to the deponent per copy	21	SUBSCRIBED AND SWORN TO before me this	
22	of the attached letter.	22 23	day of, 2005.	
23		24	Notary Public	
24			,	
	Page 82		CACE PRANK A RAYOVAC	Page 84
2	The undersigned is not interested in the within case, nor of kin or counsel to any of the parties.	1	CASE: BRAUN -vs- RAYOVAC	
3	Witness my official signature and seal as	2	DATE TAKEN: April 29, 2005	
4		3		
	Notary Public in and for Cook County, Illinois on this		DEPONENT: NORBERT SMETANA	
5	Notary Public in and for Cook County, Illinois on this day of, A.D. 2005.	4	PAGE LINE ERRATA SHEET	
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21 (Pages 81 to 84)

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230 West Monroe Street - Suite 1500 Chicago, Illinois 60606		
(312) 263-3524 (312) 236-8461 May 9, 2005		
MS. LESLEY WOLF		
One International Place Boston, Massachusetts 02110		
CASE: BRAUN -vs- RAYOVAC		
CASE NO.: 03-CV-12428 (WGY) DEP OF: NORBERT SMETANA DATE TAKEN: April 29, 2005		
Dear Ms. Wolf:		
Per your instruction, enclosed is a copy of the deposition transcript, along with the original signature		
page and errata sheet. Pursuant to the rules of court in this matter, the		
transcript is to be read and then signed before a notary		
public. If any corrections/changes are to be made, please TYPE		
or PRINT them on the attached errata sheet, giving the		
page and line number, desired correction/change and reason.		
Name +		
Please arrange for accomplishment of same and transmittal of the signature page and errata sheet back		
to our office within 30 days from the date of this letter.		
Upon failure to comply, we shall forward an appropriate		·
affidavit of noncompliance to all counsel of record.		
Sincerely yours,		
Legatink - Chicago		
cc: Mr. James Shimota (org)		
· <del>-</del>		
C.C. Job No. CC126185		
	Page 2005	
CASE: BRAUN -vs- RAYOVAC	Page 2005	
CASE: BRAUN -vs- RAYOVAC DATE TAKEN: April 29,	Page 2005	
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